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An ISO 9001-2015 Certified Company

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QC ABSTRACT

Nameof Work: Construction of Roads and Drains in Choudappa layout in Ward .No.17, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes Results
1	1:4:8	30.24 Cum	1	1	Pass
2	M20	70.56 Cum	5	5	Pass
3	M30	393.16 Cum	11	11	Pass
4	Steel	3.18 Tonne	1	1	Pass
5	DLC	393.16 Cum	1	1	Pass
6	Slab 100mm	150.75 Sqm	1	1	Pass
7	WMM	393.16 Cum	-	-	Pass
	AIV	-	2	2	Pass
	Grdation	-	4	4	Pass
	Shape test	-	2	2	Pass
	Atterberg Limits	-	4	4	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 13.10.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri.G Ashwathappa,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE	:	September - 2023
DATE OF TESTING	:	11.10.2023 to 13.10.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date : 13.10.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri.G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Date of Testing : 13.10.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	132	13.20	21.60	78.4	75-100
1.18	185	18.50	40.10	59.9	55-90
600 Micron	166	16.60	56.70	43.3	35-59
300 Micron	225	22.50	79.20	20.8	8-30
150 Micron	142	14.20	93.40	6.6	0-10

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date : 13.10.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Date of Testing : 13.10.2023

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15	1.50	1.50	98.5	90-100
1.18	39	3.90	5.40	94.6	70-100
600 Micron	85	8.50	13.90	86.1	40-100
300 Micron	254	25.40	39.30	60.7	5-70
150 Micron	482	48.20	87.50	12.5	0-15

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Job No.: CACE/BBMP/AS/W.No.17/2023-24 Date : 13.10.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri.G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Date of Testing : 13.10.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	182	3.6	3.6	96.4	95-100
10	2430	48.6	52.2	47.8	25-55
4.75	1968	39.4	91.6	8.4	0-10

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Date : 13.10.2023

Job No.: CACE/BBMP/AS/W.No.17/2023-24

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri.G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Date of Testing : 13.10.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	189	1.26	1.26	98.74	95-100
20	8230	54.87	56.13	43.87	30-70
10	3265	21.77	77.89	22.11	10-35
4.75	2815	18.77	96.66	3.34	0-5

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date : 17.10.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri.G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 17.10.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	552	632	1.14	13.5
2	TMT	10	0.618	568	652	1.15	14
3	TMT	12	0.889	579	671	1.16	15.5

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 30.10.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2023	30.10.2023	8.136	332.6	14.78
2	23.10.2023	30.10.2023	8.154	340.5	15.13
3	23.10.2023	30.10.2023	8.148	329.3	14.64

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Job No.: CACE/BBMP/AS/W.No.17/2023-24 Date: 20.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2023	20.11.2023	8.184	508.2	22.59
2	23.10.2023	20.11.2023	8.159	512.3	22.77
3	23.10.2023	20.11.2023	8.136	496.5	22.07

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 30.10.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2023	30.10.2023	8.139	332.3	14.77
2	23.10.2023	30.10.2023	8.156	345.2	15.34
3	23.10.2023	30.10.2023	8.182	324.6	14.43

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 20.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2023	20.11.2023	8.184	482.6	21.45
2	23.10.2023	20.11.2023	8.169	495.3	22.01
3	23.10.2023	20.11.2023	8.154	508.3	22.59

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 03.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.10.2023	03.11.2023	8.178	320.3	14.24
2	27.10.2023	03.11.2023	8.182	345.5	15.36
3	27.10.2023	03.11.2023	8.165	339.6	15.09

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 24.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.10.2023	24.11.2023	8.184	516.3	22.95
2	27.10.2023	24.11.2023	8.169	508.2	22.59
3	27.10.2023	24.11.2023	8.145	500.9	22.26

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 03.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.10.2023	03.11.2023	8.139	336.3	14.95
2	27.10.2023	03.11.2023	8.168	345.2	15.34
3	27.10.2023	03.11.2023	8.146	328.9	14.62

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Authorised Signatory

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Job No.: CACE/BBMP/AS/W.No.17/2023-24 Date: 24.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.10.2023	24.11.2023	8.147	505.2	22.45
2	27.10.2023	24.11.2023	8.152	519.3	23.08
3	27.10.2023	24.11.2023	8.186	512.2	22.76

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/AS/W.No.17/2023-24 Date: 03.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.10.2023	03.11.2023	8.169	336.3	14.95
2	27.10.2023	03.11.2023	8.184	345.2	15.34
3	27.10.2023	03.11.2023	8.145	352.8	15.68

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Job No.: CACE/BBMP/AS/W.No.17/2023-24 Date: 24.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.10.2023	24.11.2023	8.169	495.3	22.01
2	27.10.2023	24.11.2023	8.188	478.8	21.28
3	27.10.2023	24.11.2023	8.205	482.6	21.45

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 06.11.2023

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. G Ashwathappa,** Contractor, Bangalore.
Name of Work	:	Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	06.11.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.375	2329.10	1.64	0.961	32.30	16.45	17.77	17.08	21.34
2	50.00	84.00	0.384	2328.21	1.68	0.965	32.90	16.76	18.10	17.47	21.84
3	50.00	86.00	0.399	2362.90	1.72	0.970	33.60	17.11	18.48	17.92	22.40

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date : 04.11.2023

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.
Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.
IS Code: : IS 2720(Part 5):1985
Date of Testing : 02.11.2023 to 04.11.2023
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/AS/W.No.17/2023-24 Date : 04.11.2023

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 02.11.2023 to 04.11.2023

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Date : 04.11.2023

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 02.11.2023 to 04.11.2023

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/AS/W.No.17/2023-24 Date : 04.11.2023

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 02.11.2023 to 04.11.2023

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 02.11.2023

Aggregate Impact Value

Client	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	Sri. G Ashwathappa, Contractor, Bangalore.
Name of the Work	Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	02.11.2023

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	84	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.52	21.93	**21.73**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 02.11.2023

Aggregate Impact Value

Client	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Sri. G Ashwathappa,** Contractor, Bangalore.
Name of the Work	Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	02.11.2023

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.32	21.73	**21.52**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date : 02.11.2023

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 02.11.2023

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	184	184	1.8	98.2	95-100
22.4	2536	2720	27.2	72.8	60-80
11.2	2150	4870	48.7	51.3	40-60
4.75	1863	6733	67.3	32.7	25-40
2.36	1125	7858	78.6	21.4	15-30
0.600	585	8443	84.4	15.6	8-22
0.075	1212	9655	96.6	3.5	0-5

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Job No.: CACE/BBMP/AS/W.No.17/2023-24 Date : 02.11.2023

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.
Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 02.11.2023
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	175	175	1.8	98.3	95-100
22.4	2495	2670	26.7	73.3	60-80
11.2	2195	4865	48.7	51.4	40-60
4.75	1836	6701	67.0	33.0	25-40
2.36	1185	7886	78.9	21.1	15-30
0.600	546	8432	84.3	15.7	8-22
0.075	1152	9584	95.8	4.2	0-5

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GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 02.11.2023

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	180	180	1.8	98.2	95-100
22.4	2563	2743	27.4	72.6	60-80
11.2	2150	4893	48.9	51.1	40-60
4.75	1854	6747	67.5	32.5	25-40
2.36	1145	7892	78.9	21.1	15-30
0.600	569	8461	84.6	15.4	8-22
0.075	1258	9719	97.2	2.8	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date : 02.11.2023

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 02.11.2023

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	182	182	1.8	98.2	95-100
22.4	2530	2712	27.1	72.9	60-80
11.2	2156	4868	48.7	51.3	40-60
4.75	1820	6688	66.9	33.1	25-40
2.36	1165	7853	78.5	21.5	15-30
0.600	562	8415	84.2	15.9	8-22
0.075	1254	9669	96.7	3.3	0-5

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Job No: CACE/BBMP/AS/W.No.17/2023-24

Date : 02.11.2023

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Sri.G Ashwathappa,** Contractor, Bangalore.
Name of Work	Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.
BIS code:	IS 2386(Part I) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	02.11.2023

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.50	12.10	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.90	13.20	
	Combined Flakiness & Elongation index	24.40	25.30	

Note:

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Date : 02.11.2023

Job No.: CACE/BBMP/AS/W.No.17/2023-24

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Sri.G Ashwathappa,** Contractor, Bangalore.
Name of Work	Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	02.11.2023

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.30	11.90	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.10	13.50	
	Combined Flakiness & Elongation index	24.40	25.40	

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date : 13.11.2023

GRADATION FOR DRY LEAN CONCRETE
MORTH TABLE-600-1

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri.G Ashwathappa,** Contractor, Bangalore.

Name of Work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Date of Testing : 13.11.2023

Material : Dry Lean Concrete

Oven Dry Wt (gm): **10000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	1020	1020	10.2	89.8	80-100
9.5	2436	3456	34.6	65.4	55-75
4.75	1582	5038	50.4	49.6	35-60
0.600	3360	8398	84.0	16.0	10-35
0.075	928	9326	93.3	6.7	0-8

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 27.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2023	27.11.2023	8.184	500.3	22.24
2	20.11.2023	27.11.2023	8.165	516.2	22.94
3	20.11.2023	27.11.2023	8.149	489.3	21.75

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 18.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2023	18.12.2023	8.184	708.2	31.48
2	20.11.2023	18.12.2023	8.169	716.3	31.84
3	20.11.2023	18.12.2023	8.155	724.7	32.21

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 27.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. G Ashwathappa, Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2023	27.11.2023	8.168	502.6	22.34
2	20.11.2023	27.11.2023	8.175	495.6	22.03
3	20.11.2023	27.11.2023	8.125	484.5	21.53

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2023	18.12.2023	8.198	715.2	31.79
2	20.11.2023	18.12.2023	8.156	726.3	32.28
3	20.11.2023	18.12.2023	8.138	705.3	31.35

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2023	27.11.2023	8.168	500.9	22.26
2	20.11.2023	27.11.2023	8.184	512.3	22.77
3	20.11.2023	27.11.2023	8.148	478.5	21.27

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2023	18.12.2023	8.198	715.2	31.79
2	20.11.2023	18.12.2023	8.150	726.3	32.28
3	20.11.2023	18.12.2023	8.135	732.4	32.55

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2023	27.11.2023	8.198	508.2	22.59
2	20.11.2023	27.11.2023	8.156	515.2	22.90
3	20.11.2023	27.11.2023	8.134	482.6	21.45

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2023	18.12.2023	8.198	702.2	31.21
2	20.11.2023	18.12.2023	8.156	719.3	31.97
3	20.11.2023	18.12.2023	8.138	725.2	32.23

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/AS/W.No.17/2023-24

Date: 28.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.11.2023	28.11.2023	8.169	508.2	22.59
2	21.11.2023	28.11.2023	8.145	512.0	22.76
3	21.11.2023	28.11.2023	8.152	482.6	21.45

Note:

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Job No.: CACE/BBMP/AS/W.No.17/2023-24 Date: 19.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.11.2023	19.12.2023	8.196	715.2	31.79
2	21.11.2023	19.12.2023	8.156	724.6	32.20
3	21.11.2023	19.12.2023	8.132	736.2	32.72

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Job No.: CACE/BBMP/AS/W.No.17/2023-24 Date: 28.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.11.2023	28.11.2023	8.189	505.2	22.45
2	21.11.2023	28.11.2023	8.166	513.2	22.81
3	21.11.2023	28.11.2023	8.152	482.6	21.45

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.11.2023	19.12.2023	8.189	712.2	31.65
2	21.11.2023	19.12.2023	8.165	725.2	32.23
3	21.11.2023	19.12.2023	8.146	706.3	31.39

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Client	: **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Sri. G Ashwathappa,** Contractor, Bangalore.
Name of the work	: Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.11.2023	28.11.2023	8.180	505.2	22.45
2	21.11.2023	28.11.2023	8.156	511.3	22.72
3	21.11.2023	28.11.2023	8.138	482.6	21.45

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Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.11.2023	19.12.2023	8.198	712.2	31.65
2	21.11.2023	19.12.2023	8.156	726.5	32.29
3	21.11.2023	19.12.2023	8.138	720.4	32.02

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.11.2023	29.11.2023	8.205	500.2	22.23
2	22.11.2023	29.11.2023	8.195	484.9	21.55
3	22.11.2023	29.11.2023	8.166	496.3	22.06

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.11.2023	20.12.2023	8.139	708.2	31.48
2	22.11.2023	20,12.2023	8.166	716.5	31.84
3	22.11.2023	20.12.2023	8.184	724.3	32.19

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

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Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.11.2023	29.11.2023	8.189	512.2	22.76
2	22.11.2023	29.11.2023	8.165	509.3	22.64
3	22.11.2023	29.11.2023	8.148	475.9	21.15

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Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.11.2023	20.12.2023	8.188	710.2	31.56
2	22.11.2023	20.12.2023	8.169	700.9	31.15
3	22.11.2023	20.12.2023	8.191	721.2	32.05

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Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.11.2023	29.11.2023	8.195	478.5	21.27
2	22.11.2023	29.11.2023	8.165	495.6	22.03
3	22.11.2023	29.11.2023	8.148	509.3	22.64

Note:

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Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. G Ashwathappa,** Contractor, Bangalore.

Name of the work : Construction of Roads and Drains in Choudappa Layout in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.11.2023	20.12.2023	8.184	705.2	31.34
2	22.11.2023	20.12.2023	8.169	719.6	31.98
3	22.11.2023	20.12.2023	8.152	724.5	32.20

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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